



PROJECT GF/CRO/02/007

**ENABLING ACTIVITIES TO FACILITATE EARLY
ACTION ON THE IMPLEMENTATION OF THE
STOCKHOLM CONVENTION ON PERSISTENT ORGANIC
POLLUTANTS (POPS) IN THE REPUBLIC OF CROATIA**

**PRELIMINARY INVENTORIES WORKSHOP
REPORT**

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Zagreb, June 2003

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1. INTRODUCTION

This report presents activities from the one part of the POPs Inventory phase of the GF/CRO/02/007 Project implementation, lasting 3 months (February 2002 – May 2003) and concluded by the Preliminary Inventories Workshop, which was held on May 19, 2003 in Zagreb.

Preliminary Inventories Workshop was organised primary as a control point for Stakeholder Committee to evaluate progress and suggest further steps in the implementation of the Project.

During the proceeded time Preliminary Inventory Reports will be finished and reviewed by the local and external experts with an aim to present the POPs situation in Croatia as realistic and accurate as it is possible in this phase of the project.

Other activities in developing Inventory of POPs will include preparation of one general overview of POPs releases and environmental and human health impact of POPs chemicals. This important part of POPs issue will be performed by the team formed from experts of “*Institut za medicinska istraživanja i medicinu rada*” - *Institute for Medical Research and Occupational Health* from Zagreb.

Inventory Report will be completed in August/September 2003, and will be the basic for prority setting and determining objectives of POPs matter in Croatia. This activity will be a starting point for the implementation of the third phase of POPs project in Croatia.

Implementation of the GF/CRO/02/007 Project is based on the No. 2002/067 Contract signed between the United Nation Industrial Development Organisation (UNIDO) and the Croatian Cleaner Production Centre.

The Global Environmental Facility (GEF) is financing this project.

The main objective of the “Enabling Activities to Facilitate Early Action on the Implementation of the Stockholm Convention on Persistent Organic Pollutants (POPs) in the Republic of Croatia” is preparation and endorsement of National Implementation Plan on POPs in Republic of Croatia.

These activities will help Croatia to fulfil its obligation in the Stockholm Convention.

Within the framework of this project the results of all activities performed so far will be collected, verified and completed under a uniform scheme and a comprehensive national action plan will also be developed.

1.1 Work plan of the project

The detailed implementation schedule for the 2nd phase (Inventory Phase) was discussed during the training on inventory procedures with international technical assistant (prof. Ivan Holoubek), which was held in February 2003 in Zagreb.

This table presents main activities including time schedule, which are the topics of contracted project:

Activity	Time period [Month of project time]
<ul style="list-style-type: none"> • Implementation workshop of project – UNIDO Vienna, A • Project management, realisation by core team of project: - National Project Co-ordination Team– 24 months 	<p style="text-align: center;">0</p> <p style="text-align: center;">0 – 24</p>
Outcome (1)	
Determining Co-ordinating Mechanism and Organising Process Organisation of Inception Workshop (IW) – 1 – 6 months of project time	
<ul style="list-style-type: none"> • Croatian Cleaner Production Centre (CroCCP) will designate the National Project Co-ordinator • Assessment of needs of CroCCP Focal Point to oversee overall execution (technical, human resources, etc.) • Strengthening of national institution to serve as Focal Point-FP (Croatian Cleaner Production Centre – CCCP) • Identification and sensitisation of main stakeholders • Determination of: <ul style="list-style-type: none"> - Stakeholders committee (representative of: MoEPPP + Ministry of Economy, Ministry of Foreign Affairs, Ministry of Agriculture and Forestry, Ministry of Health, Ministry of Labour and Social Care, Chamber of Economy, NGO+FP) • Identifying of: <ul style="list-style-type: none"> Expert network – TASK TEAMS– POPs experts from various ministries, research institutes, consulting institutions, universities, private sector, NGO (main participants of workshop) • Identifying and assigning responsibilities among government departments and other stakeholders for the various aspects of POPs management • Informing the national stakeholders about future commitments • Drawing-up overall workplan • Creating and maintaining the Project web site • Organisation of inception workshop (1 day + 30 participants + Chief Technical Advisor participation) 	<p style="text-align: center;">1</p> <p style="text-align: center;">1 - 2</p> <p style="text-align: center;">1 - 2</p> <p style="text-align: center;">2 - 3</p> <p style="text-align: center;">3</p> <p style="text-align: center;">3</p> <p style="text-align: center;">3 - 4</p> <p style="text-align: center;">2 - 4</p> <p style="text-align: center;">2 - 24</p> <p style="text-align: center;">6</p>
Outcome (2)	
Establishing a POPs Inventory and Assessing National Infrastructure Capacity Development of Initial National POPs Inventory (INPOPSI) – 6 – 12 months	
<ul style="list-style-type: none"> • Determination of the task teams responsibilities • Training on inventory procedures– international technical assistance • Preliminary inventory of production, distribution, use, import and export of POPs containing products • Preliminary inventory of stocks and contaminated sites • Preliminary inventory of releases to the environment • External independent review (national expert) of initial national POPs inventories 	<p style="text-align: center;">4</p> <p style="text-align: center;">6</p> <p style="text-align: center;">6 - 10</p> <p style="text-align: center;">6 - 10</p> <p style="text-align: center;">6 - 10</p> <p style="text-align: center;">11</p>

<ul style="list-style-type: none"> • Assessment of infrastructure capacity and institutions to manage POPs, including regulatory control • Assessment of enforcement capacity to ensure compliance • Assessment of social and economic implications of POPs use and reduction • Assessment of monitoring and R&D capacity • Identification of POPs related human health and environmental issues of concern • Workshop on preliminary inventories 	<p>6 – 8</p> <p>6 – 8</p> <p>10 -12</p> <p>10 –12</p> <p>9 - 12</p> <p>9</p>
<ul style="list-style-type: none"> • The draft of 1st version of INPOPs – finalisation 	<p>11 – 12</p>
<ul style="list-style-type: none"> • Regional workshop: • Presentation of INPOPs, • Discussion of priority setting and development of NIP 	<p>12</p>

Outcome (3)

Priority Setting and Determining Objectives

Organisation of National Priority Validation Workshop (NPVW) – 12 - 15 months

<ul style="list-style-type: none"> • Study tour (3 persons/10 days) • Determination of the NIP task team responsibilities • Development of criteria for prioritisation (internal local team) • Determination of national objectives • Chief Technical Advisor assistance • Organisation of national priority validation workshop – 15 participants/2 days + Chief Technical Adviser 	<p>12 - 13</p> <p>12</p> <p>12 - 15</p> <p>12 - 15</p> <p>15</p> <p>15</p>
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Outcome (4)

Formulating a National Implementation Plan (NIP) and Specific Action Plans on POPs (SAP-POPs)

Expert review of NIP – 16 – 21 months

<ul style="list-style-type: none"> • Training and assign mandates to task teams to develop proposals for addressing priorities –TRAINING ON NIP DEVELOPMENT 2 international experts (0.7 work months each) 10 participants/2 or 3 days + Chief Technical Adviser • Identification of management options, including phasing out and risk reduction options • Need for introduction of technologies • Assessment of the costs and benefits of management options • Development of a national strategy for information exchange, education, communication and awareness raising • Chief Technical Adviser assistance • Workshop on defining expected results and targets 20 participants/2 days • Development of a detailed NIP • International Expert review of NIP (0.5 work months) • Preparation of initial funding request package for implementation, including cost estimates and incremental costs 	<p>15</p> <p>16 - 17</p> <p>16 - 17</p> <p>18 - 19</p> <p>16 - 17</p> <p>19</p> <p>19</p> <p>17 - 20</p> <p>21</p> <p>16 - 21</p>
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Outcome (5)	
Endorsement of NIP by Stakeholders –	
Organisation of workshop – 22 – 24 months	
• Prepare an information document (report) to be submitted to stakeholders for comments	22
• Chief Technical Advisor assistance	23
• Incorporation of the comments into the report and presentation to the Steering Committee for its approval	23
• Lobbying high Government officials	1 - 24
• Organisation of workshops – 1 day/40 participants + Chief Technical Adviser + UNIDO	24

2. ORGANISATION OF INVENTORY PHASE AND ASSESSMENT OF NATIONAL INFRASTRUCTURE

The Project implementation team of the local experts was established for all organisational and technical issues, as well as the responsibility for the contract registration and all formal and legal aspects concerned with sub-contracts and agreements with expert.

Members of the team will be responsible in their own part for this inventory phase. Each step of this phase is controlled and discussed with the National Project Coordinator

2.1 Task teams for POPs Inventory

Stakeholder Committee for POPs project in Croatia has made a decision based on the public tender published in the daily newspapers that three companies/institutions are responsible for conducting and collecting inventory data.

These companies/task teams will be responsible for first Preliminary Inventory Report.

➤ Hazardous Waste Agency Ltd. – Inventory PCBs

Members of task teams for PCBs:

- Ph.D. Savka Kučar - Dragičević
- Ph.D. Vladimir Lokner
- Mr.Sc. Antun Schaller
- B.Sc. Sanja Grabar
- B.Sc. Andrea Rapić
- B.Sc. Željko Jelačić
- B.Sc. Tea Mišić
- B.Sc. Dražen Lovrić
- additional external experts.

➤ Institute for Plant Protection in Agriculture and Forestry of Republic of Croatia – Inventory – POPs Pesticides

Members of task teams for POPs Pesticides:

- Ph.D. Darka Hamel
- M.Sc. Ivan Mikec
- M.Sc. Goran Hrlec
- B.Sc. Gorana Hrlec
- additional employees from Institute.

➤ **Ekonerg Holding – Releases from Unintentional Production**

- M.Sc. Niko Malbaša
- M.Sc. Žarko Jakovljević
- B.Sc. Maja Jerman
- additional external expert.

These companies/institutions had until now conduct similar tasks during their prior activities, and they are more than adequate and experienced for this part of inventory phase and assessment of national infrastructure capacity.

In the last part of Inventory Phase, and according to the achieved result some additional experts will be included, based on the problems and data gaps discovered during initial inventory procedures.

Initial Inventory Report will be finished by the end of July 2003. After receiving it, Report will be reviewed and all suggestions and remarks will be addressed with the aim to improve this inventory. Inventory Report will be finalised before National Priority Validation Workshop, which will be held in September 2003.

Monitoring of Releases and Environmental and Human Health Impact issue will be addressed during the finalisation of this phase of Preliminary Inventories by co-operation with national institutions/expert experienced in this matter.

Identification of POPs related human health and environmental issues of concern, as well as assessment of monitoring and R&D capacity will also be included in these activities.

All this subjects are of great importance in conducting this preliminary inventory phase.

After finalisation of these activities combine report will be presented to the Stakeholder Committee for their acceptance. This material will represent final document for inventory of POPs chemicals in Croatia in this project.

3. INITIAL INVENTORY RESULTS

At the Preliminary Inventories Workshop organised as a control point in this phase, above mentioned task teams presented their activities and collected information and results in the implementation of this phase of the project.

3.1. Inventory of POPs Pesticides

Members of the task team for POPs Pesticides Inventory presented the situation with POPs Pesticides in Croatia.

Short overview of Legal and Institutional Framework in this field was presented at the beginning, before addressing POPs Pesticide issue. Detailed overview will be a part of Preliminary Inventories Report.

All pesticides from the list of POPs are banned in Croatia, and based on this fact there is no current consumption of POPs Pesticides in the agriculture and forestry in Croatia.

In the last 40 years there has been some production of active substances for some POPs pesticides, but currently none of these is present in Croatia.

Based on this there is no export of POPs Pesticides from Croatia. Import of pesticides in Croatia is present, but all of these imported pesticides are not on the list of POPs.

According to data collected from the task team for Inventory of POPs pesticide obsolete stocks are not present in Croatia.

In the period of 1998. –2002. around 1700 kg of DDT was incinerated in Hazardous Waste Treatment Plant – PUTO in Zagreb. This was organised within the framework of project financed by "Hrvatske šume – Croatian Forests" public enterprise for managing forests and forest lands in the Republic of Croatia.

3500 kg of packaging materials from various pesticides was also destroyed - incinerated. According to data collected during these activities, only small amount of DDT (40 kg) is present in Karlovac region.

There is no official information and knowledge about illegal sites for dumping pesticides. Based on banned consumption no record or data for contaminated sites with POPs Pesticide in Croatia are available.

List of national capacity in the field of pesticides (national experts, laboratories) will also be a part of Preliminary Inventory Report in the field of POPs pesticides.

Problems encountered:

- because of previous war some records for pesticides are not available
- no systematic monitoring of residues in soil
- frequency of water monitoring differs depending on locality (2 times – 12 times/year)
- monitoring of pesticide in general is not systematically approached and that is a part of pesticide issue which needs more attention in the future

Data gaps:

- collecting data for pesticides which were stored in Hazardous Waste Treatment Plant – PUTO in Zagreb, before accident

3.2. Inventory of PCB

Members of the task team for PCBs inventory presented the situation with PCBs in Croatia. Short overview of Legal and Institutional Framework in Croatia was presented at the beginning as a base for addressing PCB issue.

This framework will be more widely addressed in the Preliminary Inventory Report, as well as the obligations from Stockholm Convention.

Production of PCBs was never present in Croatia. Equipment containing PCBs (transformers and capacitors) was produced in the past (KONČAR Ltd.) but currently there isn't any production of equipment containing PCBs.

Import of PCB waste is forbidden in Croatia, as well as any other type of H.W. within the legal framework of management of hazardous waste in general.

Presently there is no existence of legal regulation which is related on banning import of PCBs or equipment with PCBs in Croatia. This is a crucial and very important part of PCB issue, which will have to be addressed in the part of legal regulation adjustment.

Need for new legal regulation was recognised, and this subject will be very important issue for addressing in National Implementation Plan, as final objective of this Project in Croatia.

With co-operation of Croatian Customs Service and Croatian Chamber of Economy process was initiated for obtaining data for import of equipment with PCBs and liquid PCBs.

Exact figures and data in this moment will be available in the Preliminary Inventory Report, but regardless those data, further activities on collecting have to continue. Need for periodic collecting of those data will be recognised as one priority of POPs management in the future.

Equipment containing PCBs is still present in almost every industrial sector in Croatia. Task team for conducting PCB inventory has formed large database with co-operation of Ministry of Environmental Protection and Physical Planning.

This database contains data from over 500 companies in Croatia and it is still being filled and updated with new data.

This data were collected by system of questionnaires sent to companies, and their answers. Deputy Minister of Environmental Protection and Physical Planning signed cover letter for these questionnaires, with demand for providing this data.

Since there is no legal obligation for companies to give this data, we can assume that these figures are not final, not exact and that they can even be higher.

Final number for pieces of equipment containing PCB (transformers and capacitors) in this phase will be presented in the Preliminary Inventory Report of PCBs.

Numbers of equipment presented in the Workshop on Preliminary Inventories were:

- ***Transformers – 304 pieces***
- ***Capacitors – 22 751 pieces***

Process of further collecting will be continued with objective to reach the final number of PCB containing equipment in Croatia.

Over 90% (percent) of this equipment is still in use in Croatia, and distribution of pieces differs between counties. National distribution of equipment (Croatia has 12 counties) is connected with industrial development inside Croatia.

National capacity in the field of PCB waste treatment (incineration plant or dechlorination) or disposal don't exist, because in Croatia there isn't any Hazardous Waste Incinerator Plant or any other facility which can effectively incinerate and destroy PCB waste.

There for, export of PCB waste is the only solution in Croatia, and a current practice of hazardous waste management.

List of national capacity in the field of PCB (national experts, laboratories, national standards...) will also be a part of Preliminary Inventory Report in the field of PCBs.

Problems encountered:

- lack of national legal regulation on PCB management
- no legal obligation for reporting usage/handling of equipment which contain PCB
- Custom Service tariff number don't recognise/identifies equipment with PCB
 - lack of official data
- divided jurisdiction between different Ministries regarding PCB equipment
 - Ministry of Economy
 - Ministry of Labour and Social Care
 - Ministry of Environmental Protection and Physical Planning

Data gaps:

- collecting data for Hot spots
- collecting data for PCB open applications
- import data for PCB equipment

3.3 Inventory of PCDD/PCDF

Member of the task team for Inventory of PCDD/PCDF presented situation in this field of POPs inventory according to the data that they had collected in this phase of the preliminary inventory.

Legal and institutional Framework was given as a short introduction on this topic.

Current system of emission reporting in Croatia (“KEO – katastar emisija u okoliš”), was developed according to similar systems in Europe. Some steps in its implementation needs further adjustment.

Based on thermo-energetic balance/fuel consumption per year in industrial sectors and according to *EMEP-CORINAIR* system, a table was given with emissions from sectors in Croatia.

Table 1: PCDD/PCDF Emission from sectors in Croatia - EMEP/CORINAIR
1. Combustion in energy and transformation industries
2000

	fuel	E.F. ng/t	Consumption t/year	Emission gTEQ/year	Total gTEQ/year
PCDD /PCDF	char coal	165,0	569.800	0,09402	0,13
	coke (raf. Sisak)	165,0	0	0,00000	
	extra light fuel oil	21,4	1.100	0,00002	
	fuel oil	100,5	392.000	0,03940	
	natural gas/ m ³	0,00102	519.200.000	0,00053	
	refinery gas	1,0	262.400	0,00026	

2. Non-industrial combustion plants

	fuel	E.F. ng/t	Consumption t/year	Emission gTEQ/year	Total gTEQ/year
PCDD /PCDF	brown coal	50.000,0	21.500	1,07500	93,06
	lignite	50.000,0	16.200	0,81000	
	fuel wood	87.000,0	1.043.000	90,74100	
	extra light fuel oil	1.000,0	402.700	0,40270	
	extra light fuel oil	21,4	4.400	0,00009	
	fuel oil	1.000,0	25.400	0,02540	
	fuel oil	100,5	37.000	0,00372	
	natural gas / m ³	0,00102	609.300.000	0,00062	
	natural gas / m ³	0,00102	53.000.000	0,00005	
	LPG	1,0	69.000	0,00007	
	LPG	1,0	0	0,00000	

3. Combustion in manufacturing industry

	fuel	E.F. ng/t	Consumption t/year	Emission gTEQ/year	Total gTEQ/year
PCDD / PCDF	char coal	165,0	53.200	0,00878	10,47
	brown coal	165,0	28.200	0,00465	
	lignite	165,0	14.400	0,00238	
	coke	165,0	37.700	0,00622	
	fuel wood	60.000,0	173.250	10,39500	
	extra light fuel oil	21,4	72.200	0,00155	
	fuel oil	100,5	543.400	0,05461	
	refinery gas	1,0	40.700	0,00004	
	natural gas / m ³	0,00102	844.500.000	0,00086	
	LPG	1,0	23.600	0,00002	

4. Production processes

	process	E.F. ng/t	production t/year	Emission g/year	Total gTEQ/year
PCDD / PCDF	Steel production (EL)	70.000,0	71.021	4,97147	4,97

5. Road transport

	fuel	E.F. ng/t	Consumption t/year	Emission g/year	Total gTEQ/year
PCDD / PCDF	motor gasoline leaded	500,0	262.100	0,13105	0,13
	diesel fuel	N.D.	557.800		
	LG - liquid gas	1,0	9.800	0,00001	

6. Other mobile sources and machinery

	fuel	E.F. ng/t	Consumption t/year	Emission g/year	Total gTEQ/year
PCDD / PCDF	diesel fuel	N.D.	53.200		0,0001
	jet fuel	N.D.	72.300		
	fuel oil	100,5	1.400	0,00014	

7. Waste treatment and disposal

	process	E.F. ng/t	Consumption t/year	Emission g/year	Total gTEQ/year
PCDD / PCDF	Incinerator	89.000,0	3.152	0,28053	0,28

TOTAL 109,05

These estimations were given only for emissions in the air, and emissions for all other media (water, land, products,...) will be calculated and presented in the Preliminary Inventory Report.

Standardised Toolkit for Identification and Quantification of Dioxin and Furan Release, and emission factors given in this Toolkit will be the basics for calculating emissions.

Priority for applying emission factors will be as follows:

- Analytical data/ laboratory measures (if they are available)
- Standardised Toolkit for Identification and Quantification of Dioxin and Furan Release
UNEP
- EMEP/CORINAIR

Preliminary Inventory Report will have all this estimations for PCDD and PCDF in Croatia, according to accepted system and priority for applying E.F.

List of national capacity in the field of PCDD and PCDF (national experts, laboratories, national standards...) will be presented as a separate part in the Preliminary Inventory Report.

Problems encountered:

- no systematic monitoring of air emissions
- licensed laboratories for analysing

Data gaps:

- not many analytical measures for emission factors

4. CONCLUSIONS FROM THE WORKSHOP ON PRELIMINARY INVENTORIES

- **The workshop participants discussed the following steps, which will be done during the next months ;**
- **All members of the Stakeholder Committee will receive (upon request) a draft of Preliminary Inventory Report from task teams for critical review.**
- **Next steps in inventory phase will be other aspect of POPs issues (*monitoring of releases in environment, health impacts,...*)**
- **Very important part of POPs inventory will be to collect data from all institutions, which monitor levels of POPs chemicals in environment.**
- **In this process of collecting this monitoring data and also a data for importing PCBs, help from governmental institutions will be needed, and this will be assured by co-operation with Stakeholder Committee.**

Annex 1:

Agenda of Preliminary Inventories Workshop

Monday, 19/05/2003

*Ministry of Economy
Zagreb, Ulica grada Vukovara 78*

- 09:00** *Introduction of participants*
- 09:30** *Current phase/status of the POPs Project in Croatia*
- 10:00** *Results of preliminary inventories*
– *inventory of PCBs*
- 11:30** *Coffee Break*
- 12:00** *Results of preliminary inventories – cont.*
– *inventory of POPs pesticide*
– *inventory of emissions (PCDD/PCDF)*
- 14:00** *Lunch*
- 15:00** *Next steps in the implementation of the project*
– *Discussion and closing*

Annex 2:

List of participants:

Participant:	Company/Institution
1. Darka Hamel	<i>Institute for Plant Protection in Agriculture and Forestry of Republic of Croatia</i>
2. Velimir Pravdić	<i>Institute “Ruđer Bošković”</i>
3. Mladen Marković	<i>PLIVA d.d.</i>
4. Zoran Stanić	<i>Croatian Electric Company – HEP d.d.</i>
5. Nikola Čabrajec	<i>Croatian Chamber of Economy - HGK</i>
6. Dražen Lovrić	<i>Hazardous Waste Agency – APO d.o.o.</i>
7. Tea Mišić	<i>Hazardous Waste Agency – APO d.o.o.</i>
8. Sanja Grabar	<i>Hazardous Waste Agency – APO d.o.o.</i>
9. Hrvojka Šunjić	<i>Ministry of Environmental Protection and Physical Planning</i>
10. Gorana Hrlec	<i>Institute for Plant Protection in Agriculture and Forestry of Republic of Croatia</i>
11. Blanka Krauthacker	<i>Institute for Medical Research - IMI</i>
12. Jasenka Nećak	<i>Ministry of Environmental Protection and Physical Planning</i>
13. Goran Hrlec	<i>Institute for Plant Protection in Agriculture and Forestry of Republic of Croatia</i>
14. Marijan Host	<i>Croatian Cleaner Production Centre</i>
15. Goran Romac	<i>Croatian Cleaner Production Centre</i>

5. TECHNICAL TRAINING ON INVENTORY PROCEDURES

Within the framework of the Project “**Enabling Activities to Facilitate Early Action on the Implementation of the Stockholm Convention on Persistent Organic Pollutants (POPs) in the Republic of Croatia**”, technical training for inventory procedures of POPs chemicals was held in Zagreb, from 17. – 19. February 2003.

Training was given in co-operation with UNIDO expert on this field, prof. dr. Ivan Holoubek from Czech Republic. General topic of all lectures was how to approach to development of POPs inventory. Experiences from Czech Republic, as well as experiences from Rocotex-Toluen Institute from Brno, which is implementing agency for POPs project in Czech Republic were also presented and discussed on this training.

Purpose of this technical training was to help task teams and to give them guidelines in conducting this Preliminary Inventory of POPs chemicals in Croatia.

In addition with members of task teams for Preliminary Inventory, some members of Stakeholder Committee, which are experts in this field were also present, as well as representatives of “Chromos-Agro” producer of pesticides and HEP - Croatian Electricity Supplier.

During this technical training discussion was held about the plan and principles of conducting Preliminary Inventory of POPs in Croatia, as well as for objective and the form of this inventory.

From participants, which are experts in this field, issue was raised about the technical capability and national capacity of analysing POPs chemical in the environment in Croatia.

At the end, it was pointed out that this Preliminary Inventory of POPs will be a starting point, and once it will be finished in this phase of the Project, it will have to be updated periodically in the future.

Annex 1: Agenda of technical training on inventory procedures workshop

Monday, 17.02.2003.

08:30 – 08:45	Introduction of participants
08:45 – 10:45	POPs inventory – general approaches
10:45 – 11:00	Coffee break
11:00 – 13:00	POPs inventory – general approaches – cont.
13:00 – 13:45	Lunch
13:45 – 14:45	Standardised Toolkit for Identification & Quantification of Dioxin and Furan Releases
14:45 – 15:00	Coffee break
15:00 – 16:00	Standardised Toolkit for Identification & Quantification of Dioxin and Furan Releases – cont.
16:00 – 17:00	EU Dioxin Inventory
17:00 – 18:00	Pesticide Inventory

Tuesday, 18.02.2003.

08:30 – 09:30	PCB Inventory
09:30 – 10:30	POPs contamination of Central & Eastern European countries – hot spot inventories
10:30 – 10:45	Coffee break
10:45 – 11:45	POPs contamination - cont.
11:45 – 13:00	National POPs Inventory in the Czech Republic
13:00 – 13:45	Lunch
13:45 – 15:00	National POPs Inventory in the Czech Republic

15:00 – 15:15	Coffee break
15:15 – 17:45	Emission inventory –Czech Republic experiences

Wednesday, 19.02.2003.

08:30 – 09:30	Monitoring of POPs
09:30 – 10:30	POPs risk assessment
10:30 – 10:45	Coffee break
10:45 – 11:45	Use of modelling for POPs inventory and risk assessment
11:45 – 12:30	Final discussion and conclusions

Annex 2: List of participants

Participant	Company/Institution
1. Hrvojka Šunjić	Ministry of Environmental Protection and Physical Planning
2. Goran Romac	Croatian Cleaner Production Centre
3. Sanja Grabar	Hazardous Waste Agency
4. Ljiljana Amić	Hazardous Waste Agency
5. Saša Cazin	HEP –Croatian Electricity Supplier
6. Želimir Kulušić	HEP – Croatian Electricity Supplier
7. Tamara Tarnik	HEP – Croatian Electricity Supplier
8. Snježana Herceg Romanić	Institute for Medical Research
9. Toni Ledić	Chromos – Agro
10. Zdenko Šmit	Public Health Institute
11. Marica Kodrić-Šmit	Public Health Institute
12. Maja Jerman	Ekonerg Institute
13. Gorana Hrlec	Institute for Plant Protection in Agriculture
14. Darka Hamel	Institute for Plant Protection in Agriculture
15. Marijan Host	Croatian Cleaner Production Centre
16. Blanka Krauthacker	Institute for Medical Research